No. 7700043

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Custom Ag Service, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS [illegible] THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Cascot L-7'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 15th day of February in the year of our Lord one thousand nine hundred and seventy-nine.

Attest:

Kenneth B. Evans
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R Block
Secretary of Agriculture

FORM GR-470-1 (1-78)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

FORM APPROVED
OMB NO. 40-R37-12

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
AG-7	Cascot L-7	PV NUMBER 7700043
2. KIND NAME	3. GENUS AND SPECIES NAME	FILING DATE 2-3-77 / TIME A.M. P.M.
Cotton	Gossypium hirsutum	FEE RECEIVED $250.00 / $250.00 / $250.00 — DATE 2-3-77 / 3-9-77 / 9-21-78
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETERMINATION	
MALVACEAE	Sept. 1973	

6. NAME OF APPLICANT(S)	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8. TELEPHONE AREA CODE AND NUMBER
Custom Ag. Service Inc.	P.O. Box 97 Loraine, Texas 79532	1-915-737-2274

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
	Texas 11-7-69	11-7-69

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Dr. John T. Presley, Registered Plant Breeder 713 846 8996
3811 Courtney Circle, Bryan, Texas 77801

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement.
- [X] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [X] 13D. Exhibit D, Additional Description of the Variety.

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [✓] YES [X] NO Letter 9/5/78 9/12 9/2

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [✓] YES [ ] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? [✓] FOUNDATION [✓] REGISTERED [✓] CERTIFIED

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?

Yes [X] YES [ ] NO

16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

12/1/77 (DATE) — Roy J. Holland (Pres) (SIGNATURE OF APPLICANT)

(DATE) — (SIGNATURE OF APPLICANT)

Exhibit A - Cascot L-7

Origin and Breeding History

During the winter of 1972, under a memorandum of agreement, the Texas Agricultural Experiment Station released an advanced breeding strain of cotton to Custom Ag. Services Inc., which was designated TX-Lewis-72C. We gave it our designation of AG-7 which was later changed to L-7 with the "L" being an abbreviation for Lewis. The name, after consultation with members of our State Department of Agriculture, was changed to Cascot L-7 for the variety. AG-7 was planted near Veribest, Texas in 1973 in an observation plot. Some roguing of off-type plants was done. Individual plants were selected, after which the block was bulk harvested. In 1974 the individual plant selections were planted in a nursery surrounded by plantings of the bulk-harvest seed. The nursery was inoculated with races 1, 2, 7, 10 and ACCO 10 of the Bacterial Blight pathogen. Progenies showing any sesceptible plants were discarded and any susceptible plants in the surrounding block planting were rogued. Off-type plants in the block planting were also rogued. The better progenies along with a number of individual plants were selected.

In the winter of 1974-75 the Texas A & M Multi-adversity resistance (TAM-MAR) genetic improvement procedure was initiated, and individual plant selections and progenies were processed. This included observations on mold growth and slow germination of seed on water agar when held at 16°C. for 8 days. Later inoculations and discarding of blight susceptible plants as well as those with weak resistance was done. The survivors were planted in pots in the greenhouse for seed production. The 1975 nursery was planted Southeast of Loraine, Texas on land infested with the Verticillium wilt fundus. In addition the nursery was inoculated with several races of the Bacterial Blight pathogen. The 1975 selections were made on the basis of resistance to Verticilbium wilt, Bacterial Blight and also on agronomic performance. Roguing of off-type plants was continued in plantings of advanced strains and in bulk plantings made from buling of strains.

Exhibit B

Cascot L-7

Statement of Novelty

Information from the Texas Agricultural Experiment Station indicated that SP-23 was one of the several parents used in the multiple crosses made in the development of TX Lewis - 720. Cascot L-7 most closely resembles Tamcot SP-37. It differs in having cream pollen instead of yellow as in Tamcot SP-37.

Sincerely,

John T. Presley

John T. Presley
Registered Plant Breeder

A composite of the better strains and progenies was made to form the first Breeders seed increase in 1976. Testing began in 1975 using seed composites of early selected strains. Fiber information from the progenies was obtained by sending samples of lint to the Textile Research Center at Texas Tech University, Lubbock, Texas. This is a recognized Fiber Testing Laboratory and results are accepted the world over as authentic.

After a variety is released the plant breeder strives to maintain varietal purity and uniformity by growing seed increase plots in isolation to prevent mixing with other varieties, and by removing any off-type plants that are found, to maintain uniformity of the variety.

The Cascot L-7 Variety is stable in the sense that when sexually reproduced it will remain unchanged with regard to its distinctive characteristics. It is also uniform in the sense that variationa are describable and predictable. Cascot L-7 is a synthetic variety.

Casot L-7 has pollen that 93% of the population has creme color AND 7% has yellow COLOR.

DJH
4/4/83

Attachment 1

Exhibit C, PVPO Number _____ Variety Oascot L-7

20. Diseases

(0=Not tested, 1=Susceptible, 2=Intermediate Resistance, 3=Resistant, 4=Tolerance, 5=Delay-Kill Resistance, 6=Escape, 7=Other, specify _____)

[3] Verticillium wilt

[3] Bacterial blight, give genes if known: B_2, B_3, B_6, B_7

Give races for which resistance is known: 1, 2, 7, 10 and 18

[0] Anthracnose

[3] Fusarium wilt

[0] Ascochyta blight

[1] Rust

[0] Root knot nematode

[0] Reniform nematode

[1] Phymatotrichum root rot

[2] Seedling disease

[0] Specific seedling pathogens

Give pathogen: _____

[2] Seed deterioration

[2] Seed and seedling cold tolerance

[ ] Other (Specify) _____

Exhibit D

Additional Description of the Variety

Cascot L-7

This variety is well adapted to growth in the Plains area of Texas and in some of the surrounding areas. The stalk is strong and upright with relatively short fruiting branches which give the plant an arboreal shape. The upright plant and short fruiting branches are very desirable in "stripper" harvesting which is the principal made of harvesting in that area of Texas. Bolls are average in size and the locks are deep-set which makes the variety somewhat storm resistant. Yield is above average for varieties grown in the Plains Area and the fiber properties are very desirable. Fineness 5.0 Strength 85.2 1,000 P.S.I, length 33/32 inches approximately and grade usually SM.

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8 (10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

COTTON (*GOSSYPIUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Custom Ag Service , Inc.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)
P.O. Box 97
Loraine, Texas 79532

FOR OFFICIAL USE ONLY

PVPO NUMBER 7700043

VARIETY NAME OR TEMPORARY DESIGNATION
CASCOT L-7

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. SPECIES:

[1] 1 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

[ ] EASTERN [ ] DELTA [X] CENTRAL [X] HIGH PLAINS [X] EL PASO AREA
[ ] WESTERN LOW HOT VALLEYS [ ] SAN JOAQUIN [ ] OTHER (*Specify*) _____

3. MATURITY (50% Open Boll):

[0][7] NO. OF DAYS *EARLIER* THAN ..... [3]
[0][7] NO. OF DAYS *LATER* THAN ..... [8]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (*Specify*) Tamcot Sp-37

4. PLANT HABIT:

[2] 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT

[3] 1 = FOLIAGE SPARSE 2 = DENSE 3 = OTHER (*Specify*) Intermediate

5. PLANT HEIGHT:

[0][8] CM. *SHORTER* THAN ..... [5]
[0][5] CM. *TALLER* THAN ..... [7]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (*Specify*) _____

6. MAIN STEM:

[3] 1 = LAX 2 = ASCENDING 3 = ERECT

[8] CM. TO FIRST FRUITING BRANCH

[0][6] NO. OF NODES TO FIRST FRUITING BRANC (*from cotyledonary node*)

7. LEAF:

[14][18] CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENSE:

[3] 1 = GLABROUS (HAIRS AS SPARSE AS D_2 SMOOTH)
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H_1 OR H_2) 5 = OTHER (*Specify*) _____

9. LEAF COLOR:

[3] 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (*Acala-442*) 4 = RED
5 = OTHER (*Specify*) _____

10. LEAF TYPE:

[1] 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (*Specify*) _____

11. FLOWER:

[2] 1 = NECTARILESS 2 = NECTARIED

[1] Petals: 1 = CREAM 2 = YELLOW

[1] Pollen: 1 = CREAM 2 = YELLOW 93% 7%

4/4/83

12. FRUITING BRANCH TYPE:

[3] 1 = CLUSTER 2 = SHORT 3 = NORMAL

[1] 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

[3] 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS
4 = OTHER (*Specify*) _____

[1] 1 = NORMAL BUD GOSSYPOL
2 = HIGH BUD GOSSYPOL

14. SEEDS:

[0][9][7] ± [.1][9] SEED INDEX (*Fuzzy seed basis*)

[2] Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER (*Specify*) _____

5

CASCOT B-2

CASCOT L-7

CUSTOM AG SERVICE, INC.
BOX 97
LORAINE, TEXAS 79532
(915) 737-2274

March 31, 1983

Mr. Kenneth H. Evans
Acting Commissioner
Plant Variety Protection Office
National Agricultural Library Building
Beltsville, Maryland 20705

Dear Mr. Evans:

Thank you for your telephone call March 25 explaining the procedure for amending plant variety descriptions.

One of our cotton varieties, Cascot L-7 (No. 7700043), was originally described as having creme colored pollen. During the past three years we have found plants with yellow pollen in our seed production fields. We have had to rogue several hundred acres of seed production annually to satisfy certified seed genetic purity standards. Each time we planted our foundation seed stocks we encountered the same problem. We began to suspect that the original pollen color description was wrong. We planted remnant seed from the original Cascot L-7 population. We found that 7% of the population were plants with yellow pollen. These plants were indistinguishable from plants with creme pollen in plant height, plant habit, leaf color, pubescense, maturity, boll type, and fiber traits.

We would like to amend the description of Cascot L-7 to state that a population of Cascot L-7 has 93% of the plants with creme colored pollen and 7% of the plants with yellow colored pollen.

Enclosed is the original plant variety protection certificate and a check for $10.00.

Thank you for your help in this matter and if you have any questions please call or write any time.

Sincerely yours,

David L. Bash
Director of Research

10

Exhibit E

Cascot L-7

Statement of Ownership

The Cascot L-7 Variety was developed in the genetic improvement program of Custom Ag. Services Inc. The original stocks were released to us by the Texas Agricultural Experiment Station.

The release was not an exclusive one, as the public agency breeding material is available to the public. No restrictions or reservations on the use of the material were made by T.A.E.S. Custom Ag. Services Inc. used the released material and by straight selection, developed its own breeding lines. Selections were made in a manner to maintain and or to improve levels of disease resistance and agronomic performance, in comparison with the original T.A.E.S. stocks. Fiber selection was for a longer and stronger fiber with the same high micronair value, in comparison with the TX Lewis-72C stocks. The Custom Ag. Service Inc. by virtue of changes and improvements in the breeding material which were made within its own genetic improvement program, utilizing its own facilities and personnel are the owners of the variety named Cascot L-7.

FORM GR-470-8 (REVERSE) 7700043 Cascot 2-7 APR 27 1977

15. BOLLS:

[2] Locules: 1 = 3-4, 2 = 4-5 [3 5] NO. SEEDS PER BOLL [3 7.5] LINT PERCENT [40 45] MM. DIAMETER

[3] Pitted: 1 = NONE, 2 = FINELY, 3 = COURSELY [6 0 0] GRAMS SEED COTTON PER BOLL [1] Breadth: 1 = BROADER AT BASE, 2 = BROADER AT MIDDLE

[2] Type: 1 = STORMPROOF (WESTBURN 70), 2 = STORM RESISTANT (LANKART 57), 3 = OPEN (DELTAPINE 16) [3] Shape: 1 = LENGTH < WIDTH, 2 = LENGTH = WIDTH, 3 = LENGTH > WIDTH

16. BRACTEOLES:

[3] Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

[1] Teeth: 1 = FINE 2 = COURSE [3] Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER (Specify) _____

17. YIELD: Compared to–

[3 0 0] PERCENT *LESS* THAN ..... [8]

[1 0 0] PERCENT *MORE* THAN ..... [3]

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1 7 = LANKART 57 8. Tamcot Sp-3

18. FIBER LENGTH (Complete one or more of the following and give the means):

[0 5 3] SPAN LENGTH 50% [1 0.7 3] SPAN LENGTH 2.5% Per Phone Call 7/27/78 [ ] U.H.M. LENGTH

[ ] MEAN LENGTH [3 3] STAPLE LENGTH 32nd INCHES

[4 3] UNIFORMITY RATIO (MEAN/U.H.M.) [4 6] UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

[8 5.2] 1,000 P.S.I. [0 6.2] ELONGATION E_1 [ ] STILOMETER T_0

[4 4.9] MICRONAIRE READING [1 2 7] YARN STRENGTH (Give test method) Micro spinning YTen [1 9 2] STILOMETER T_1

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) ~~See Attachment~~

[2] VERTICILLIUM WILT [2] FUSARIUM WILT [0] ROOT KNOT NEMATODE [2] BACTERIAL BLIGHT (Race 1)

[2] BACTERIAL BLIGHT (Race 2) [0] ASCOCHYTA BLIGHT [1] PHYMATOTRICHUM ROOT ROT [0] RHIZOCTONIA

[0] ANTHRACNOSE [1] RUST [ ] OTHER (Specify) _____

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] BOLL WEEVIL [0] APHID [0] FLEAHOPPER [0] LEAFWORM

[0] FALL ARMYWORM [0] GRASSHOPPER [0] LYGUS [0] PINK BOLLWORM

[0] STINKBUG [0] THRIP [0] CUTWORM [0] SPIDERMITE

[0] OTHER (Specify) _____

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.